

FIG.1

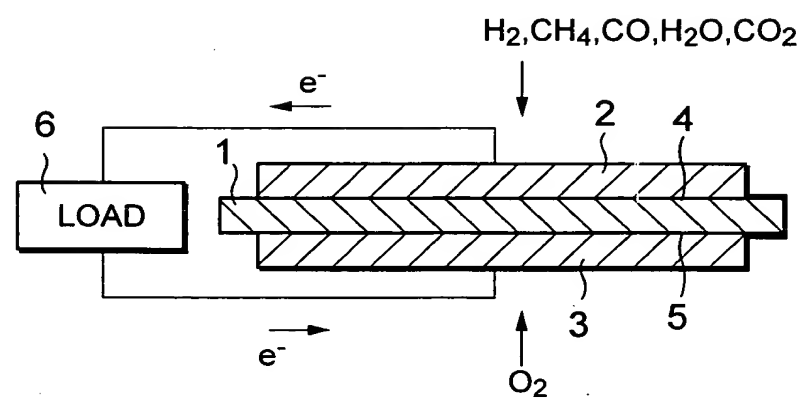
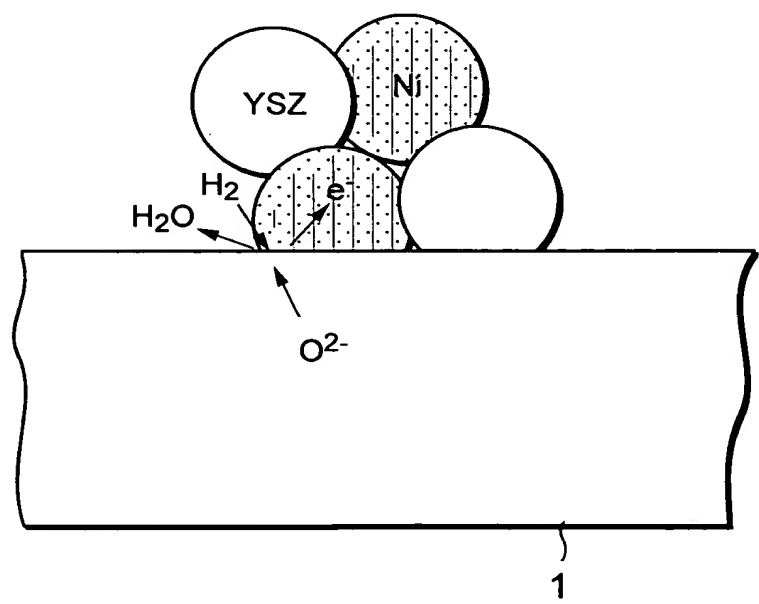


FIG.2



2/7

FIG. 3

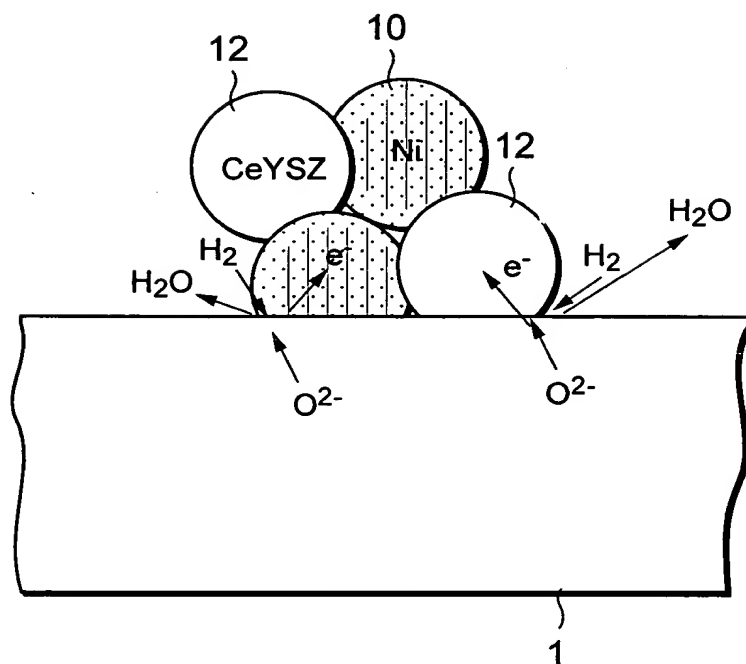
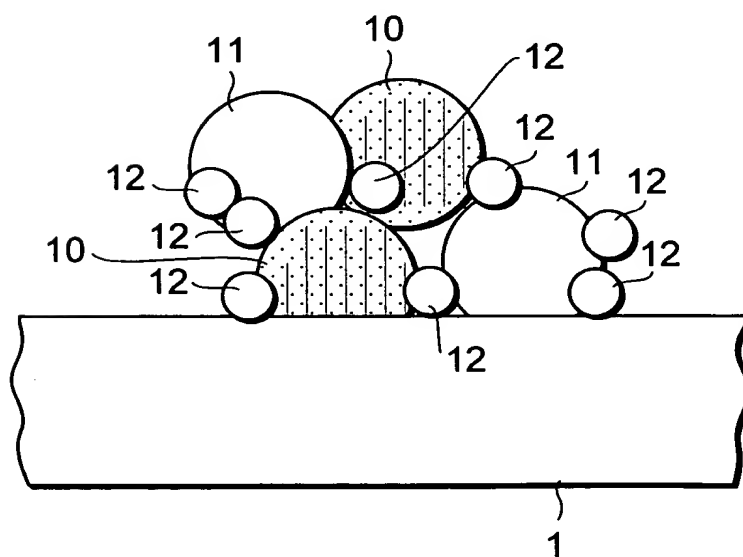


FIG. 4



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3/7

FIG.5

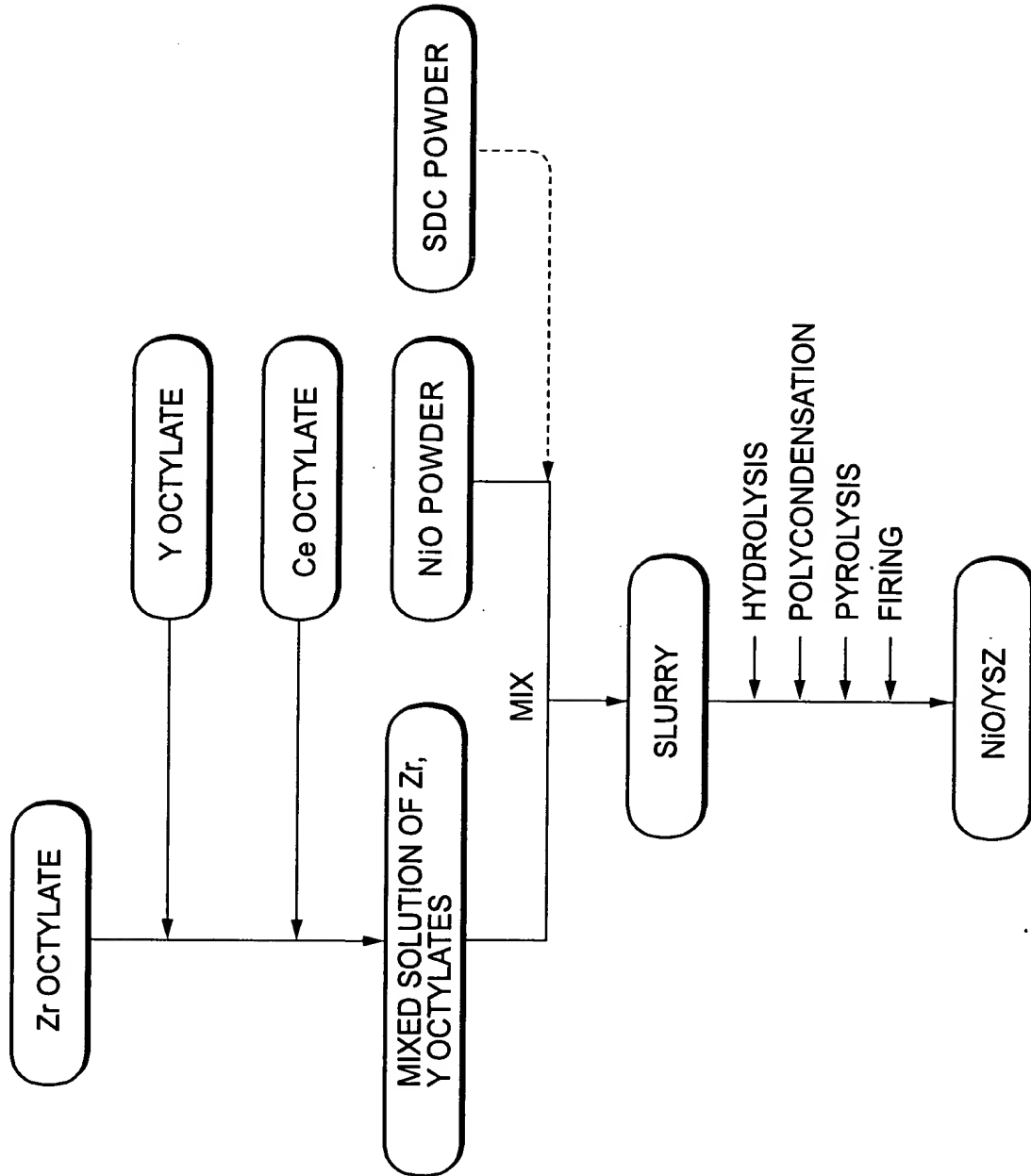


FIG. 6

RESULTS OF EXAMPLES

EXAMPLE	Ni CONCENTRATION IN CERMET (wt%)	YSZ OR CeYSZ CONCENTRATION IN CERMET (wt%)	AMOUNT OF Ce DISSOLVED INTO YSZ IN CERMET (mol%)	SDC CONCENTRATION IN FUEL ELECTRODE (wt%)	FUEL	OPERATION TEMPERATURE (°C)	DETERIORATION RATIO IN FIRST 1000 HOURS (%/1000hr)	VOLTAGE AFTER 1000 HOURS (V)
1	90	10	10	0	HYDROGEN	1000	1.3	0.817
2	90	10	10	0	HYDROGEN	900	1.2	0.768
3	90	10	10	0	HYDROGEN + STEAM	1000	1.4	0.771
4	81	10	10	9	HYDROGEN	1000	0.98	0.805
5	81	10	10	9	HYDROGEN	900	0.94	0.785
6	81	10	10	9	HYDROGEN + STEAM	1000	0.99	0.773
7	60	10	10	30	HYDROGEN	1000	0.88	0.755
8	60	10	10	30	HYDROGEN	900	0.83	0.725
9	60	10	10	30	HYDROGEN + STEAM	1000	0.89	0.713
COMPARATIVE EXAMPLE								
1	90	10	0	0	HYDROGEN	1000	3.4	0.724
2	90	10	0	0	HYDROGEN	900	3.2	0.657
3	90	10	0	0	HYDROGEN + STEAM	1000	3.3	0.667
4	81	19	0	0	HYDROGEN	1000	2.9	0.713
5	81	19	0	0	HYDROGEN	900	2.7	0.645
6	81	19	0	0	HYDROGEN + STEAM	1000	2.8	0.656
7	60	40	0	0	HYDROGEN	1000	2.3	0.701
8	60	40	0	0	HYDROGEN	900	2.2	0.633
9	60	40	0	0	HYDROGEN + STEAM	1000	2.2	0.645

FIG.7

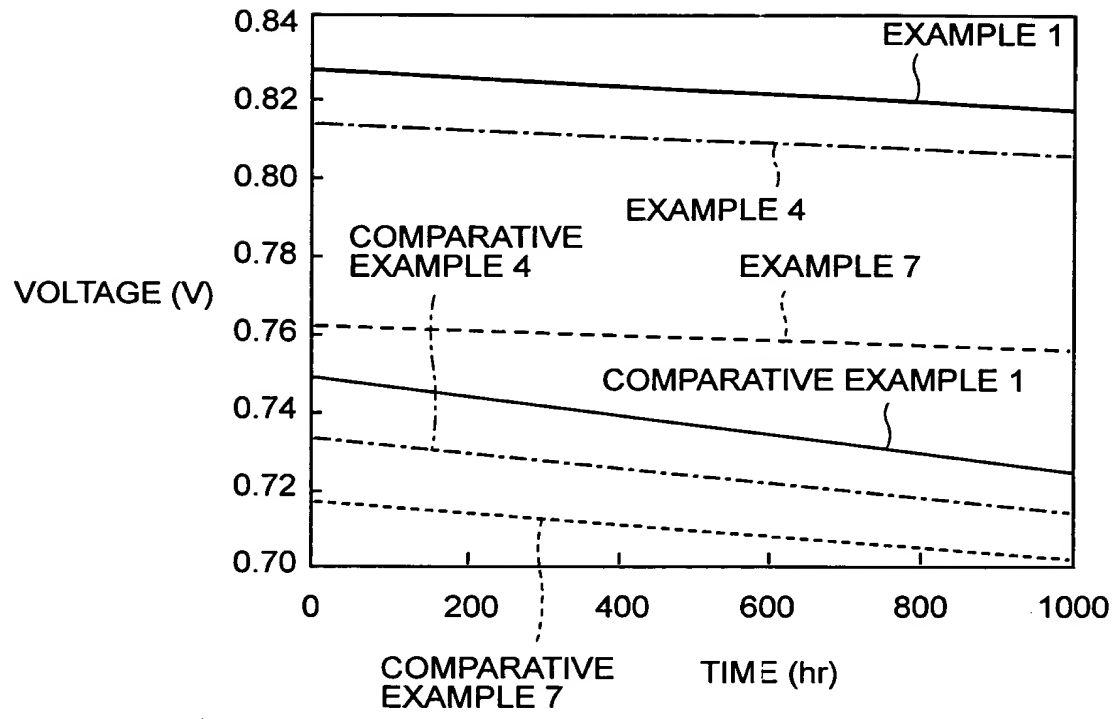


FIG.8

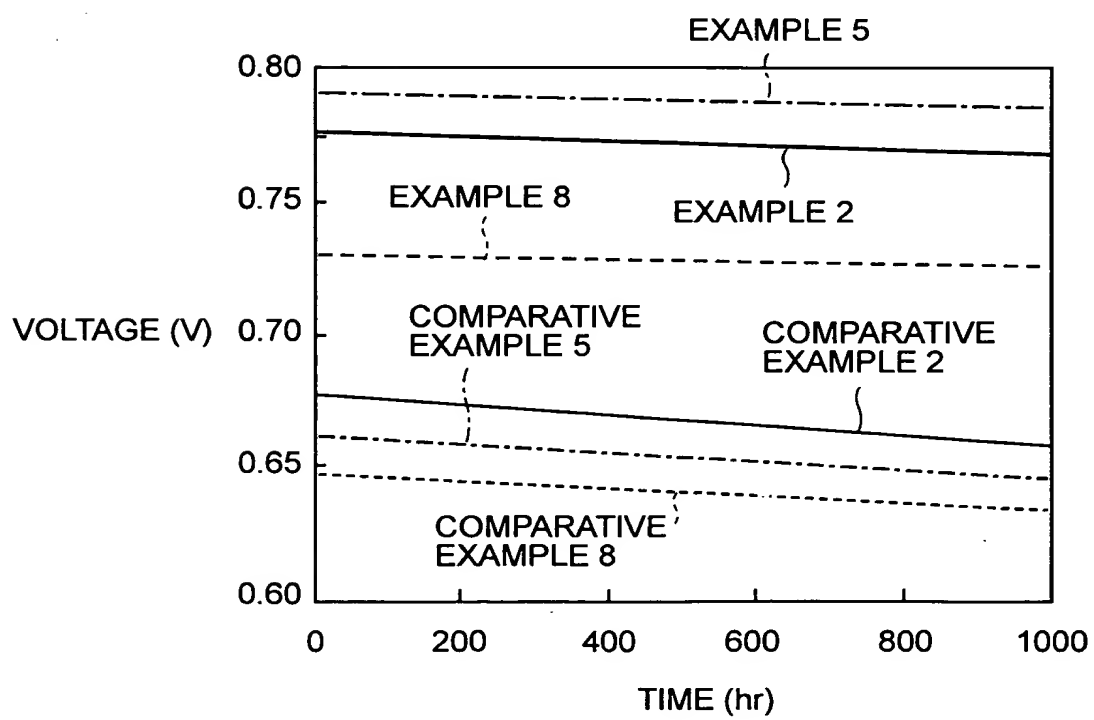
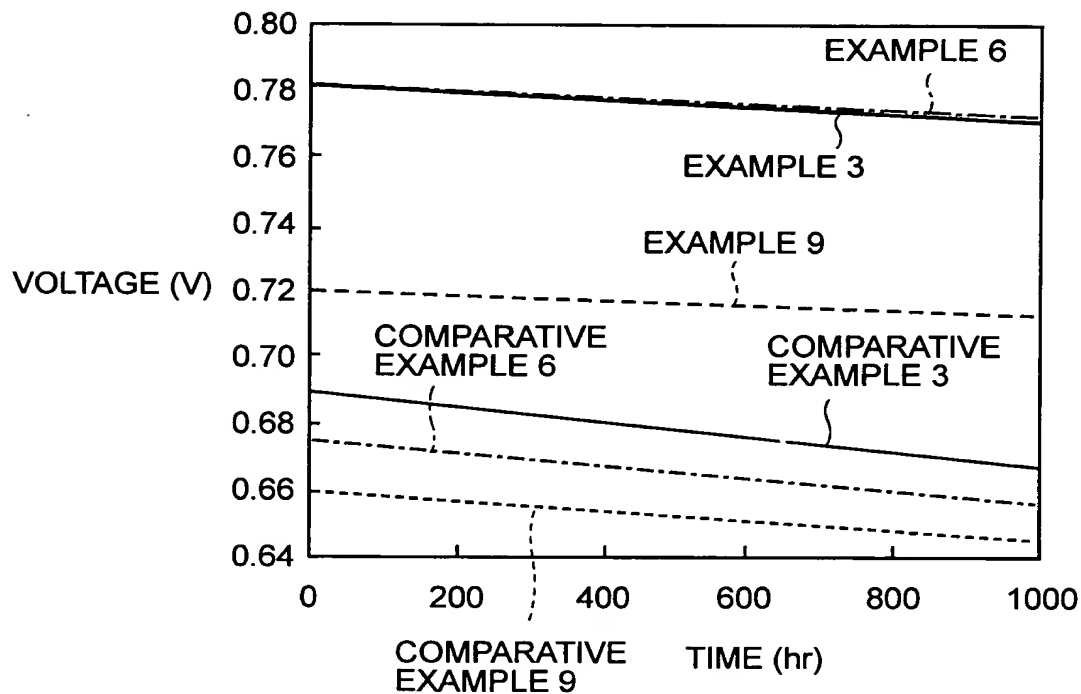


FIG.9



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7/7

FIG. 10

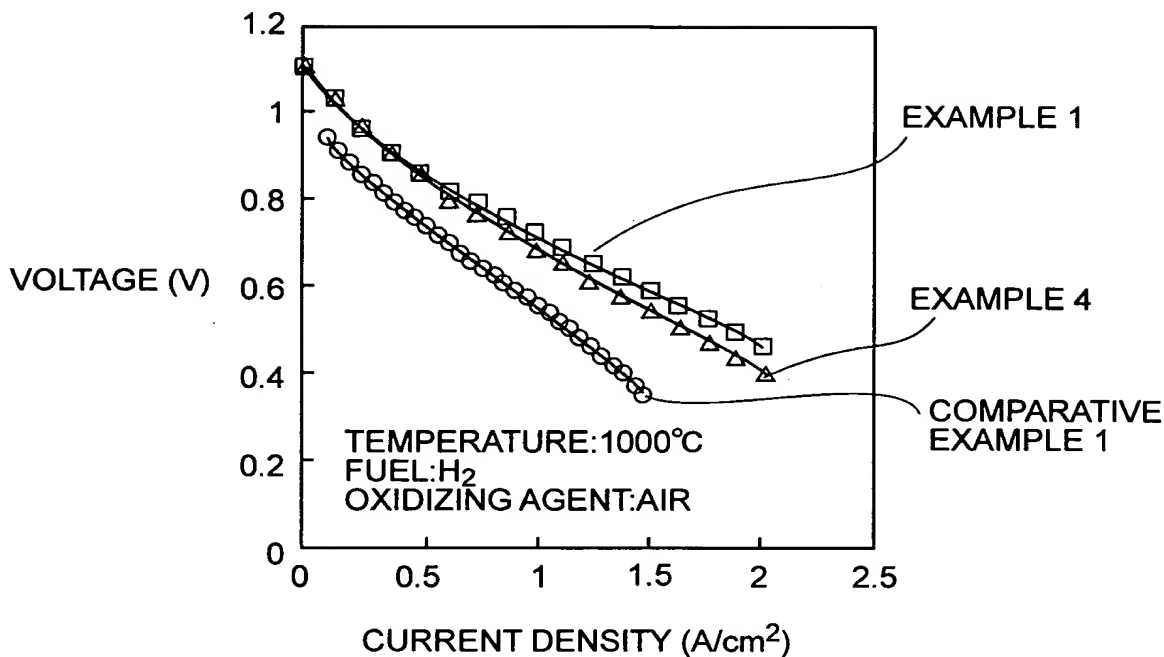


FIG. 11

